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for asymptotically flat universes einstein and others salvage conservation of energy by introducing a specific global gravitational potential energy that cancels out mass energy changes triggered by spacetime expansion or contraction

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conservation of energy principle of physics according to which the energy in a closed system remains constant energy is not created or destroyed but merely changes forms for example in a swinging pendulum potential energy is converted to kinetic energy and back again

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there is no known exception to this law it is exact so far as we know the law is called the conservation of energy it states that there is a certain quantity which we call energy that does not change in the manifold changes which nature undergoes

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conservation of energy means that the total energy of a system cannot change, but of course the potential and kinetic energy can, and by conservation of total energy we know that they get converted directly into one another.

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learn how energy can be transferred stored dissipated and conserved in different ways with examples and calculations explore the types of energy stores such as gravitational potential kinetic and internal energy and how they relate to the conservation of energy principle

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if you know the potential energies for the forces that enter into the problem then forces are all conservative and you can apply conservation of mechanical energy simply in terms of potential and kinetic energy the equation expressing conservation of energy is $ke_i + pe_i = ke_f + pe_f$

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teaching guidance for 14 16 energy is conserved what does this really mean and why is it true water in a reservoir is more or less conserved

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conservation of energy and mass the law of conservation of mass states that in a chemical reaction mass is neither created nor destroyed for example the carbon atom in coal becomes carbon dioxide when it is burned the carbon atom changes from a solid structure to a gas but its

mass does not change

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the law of conservation of energy refers to an isolated system in which there is no net change in energy and where energy is neither created nor destroyed

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